

Labocube Closed Cooling Circulators with Build-in Solvent Collection device

CF321P

Operating temp. range -20°C~Room temp.

- The solvent recovery device is equipped with a Teflon diaphragm type vacuum pump.
- Uses HFC refrigerant R404A that complies with the CFC regulations.
- The control panel has digital setting and display and timer function.
- It has an external interlocking function that turns off the power supply of the circulator when the operation is completed by interlocking with the external device.
When connected to the rotary evaporator RE601/801, the vacuum pump stop delay timer function of the rotary evaporator RE601/801 can be used.
- The drain cock, overflow port, overcurrent leakage breaker are placed in front of the body, so you can operate in front of the body.

Specifications

Product code	221563
Model	CF321P
Circulation method	External closed circulation
Operating temperature range	-20°C to Room temperature
Temperature control accuracy*1	3°C(JTM K05/JIS) at 10°C
Temperature fluctuation	
Cooling capacity*1	Approx.440W (344Kcal/h), at fluid temp.10°C
	Approx.350W (300Kcal/h), at fluid temp. 0°C
	Approx.285W (245Kcal/h), at fluid temp. -10°C
Temperature control	Refrigerator ON-OFF control
Temperature sensor	T thermocouple (with SUS protection tube)
Temperature setting, display	Digital setting and digital display
Refrigerator/Refrigerant	Air cooling, 350W / R404A
Circulating pump (50/60Hz)	Magnetic drive pump, 34/35W
Max. flow (50/60Hz)	9.1 / 8.9L/min
Max. lift (50/60Hz)	4.8 / 5.5m
Cooling coil	Nickel plated copper
External circulation nozzle	O.D. 10.5mm (SUS) discharge and return, Discharge side has a stop valve
Operating ambient temp. range	5 to 35°C
Solvent recovery cooling tube	SUS304 φ8mm, Surface area 530cm ²
Solvent collecting nozzle	O.D. φ8 (SUS), 1 each suction and exhaust
Solvent collecting bottle	500mL glass bottle (1 pc.)
Vacuum pump connection	External interlocking function external interlocking terminal (no-voltage type): Circulation pump and vacuum pump of the circulation device stop at the contact closing. RE signal connector: Vacuum pump delay stop circuit by RE601/801 interlocking. (Communication cable for vacuum pump delay timer is optional)
Other functions	Drain, Overflow, Dust prevention filter, Calibration offset function, key lock function, Power failure compensation function
Safety device	Overcurrent leakage breaker, Refrigerator overload relay protection circuit, Pump thermal protector, Refrigerator protection delay timer function, Circulation pump protective H bypass
Water tank	Stainless steel rectangular tank, approx. 4L (liquid capacity of 3L) with overflow
Power supply (50/60Hz)	AC115V / AC220V Single phase with step-down transformer
External dimensions*2	W500×D400×H600mm
Weight	Approx. 52kg
Accessories	Drain hose (1 pc), Top cover (1 pc), Solvent collecting bottle (1 pc), Overflow hose (1 pc), Circulation hose (1.5m×2 pcs), Wire clamps (2 pcs), RE special Cable

*1 Conditions: temperature and humidity: 23°C±5°C, 65%RH±20% (no load)

*2 Do not include protrusions

The length of the power cord is about 2 meters outside the unit.



Vacuum pump PG201



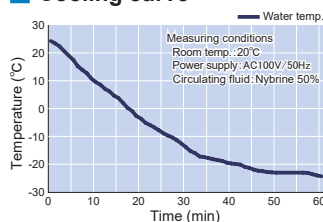
Insulated circulation hose



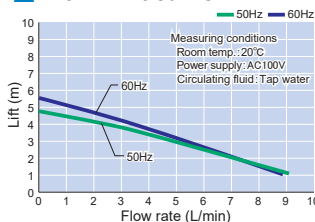
Straight circulation nozzle



Cooling curve

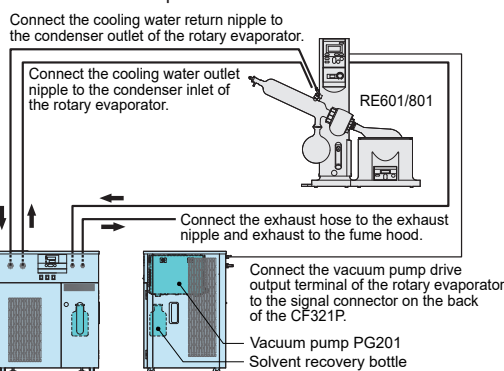


Flow / Lift curve



System configuration example

Connection example of CF321P and RE601/801



Optional Items

No.	Description	Specifications	Product code
①	Straight circulation nozzle	φ 10.5mm, Connecting screw: Rc3/8	221394
②		φ 16mm, Connecting screw: Rc3/8	221395
③	L-shaped circulation nozzle	φ 10.5mm, Connecting screw: Rc3/8	221396
④		φ 13.0mm, Connecting screw: Rc3/8	221397
⑤		φ 16.0mm, Connecting screw: Rc3/8	221398
⑥	Insulated circulation hose	I.D. φ9mm×2m length (2pcs), Clamp (4pcs)	221581
⑦	Communication cable for vacuum pump delay timer		281522
⑧	Vacuum pump PG201		255158
⑨	Vacuum hose	φ6mm×5m length (1pc)	255297

Dimensions (mm)

